

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently amended) A retractable roof system for a motor vehicle including a vehicle structure and having a front end and a rear end, the retractable roof system comprising at least a front roof panel and a rear roof panel which are movable in relation to each other along a longitudinal direction of the vehicle between:

a flush position in which the roof panels are placed substantially at the same level as each other, the front roof panel thus being located in front of the rear roof panel, along said longitudinal direction; and,

an off-set position in an upward direction in which the roof panels are placed at least partially one above the other;

one of the front and rear roof panels bearing a group of front levers and a group of articulated rear levers, so as to tip over between:

a low position in which said one of the front and rear panels is substantially flush with a surround part of the vehicle structure,

and a high position in which said one of the front and rear panels is off-set in an upward direction in relation to the level of its flush position;

wherein:

- said front and rear group of levers are pivotally mounted in relation to said roof panel which bears them;
- at least one of said front and rear roof panels comprises driving means for driving the lever groups and one of said roof panels, together:

- either from the front towards the rear, along a distance ensuring said roof panel to move from its said flush position to its said off-set position in an upward direction,
- or from the rear towards the front, along said distance, but in the opposite direction, to ensure said roof panel to move from its said off-set position to its said flush position; and
- the lever groups engage, under the control of the driving means, guides extending essentially substantially parallel to said longitudinal direction, said guides being adapted for:
 - during the controlled displacement of the lever groups from the front towards the rear, guiding ~~their~~ the tipping over movement from the flush position of the corresponding roof panel to the off-set position ~~thereof~~; and
 - during the controlled displacement of said lever groups from the rear towards the front, guiding ~~their~~ the tipping over movement from the off-set position of the corresponding panel towards its the flush position ~~thereof~~,
 - the guides comprise runners provided with first grooves in which the lever groups slide, the runners locally having deflected slips extending obliquely in relation to the horizontal and in relation to said longitudinal direction, along a length adapted to receive, individually, a part of said lever groups, so that once engaged in the deflected slips, said lever groups move, by pivoting, from one of the high and low positions towards the other position,
 - along the longitudinal direction of the vehicle, said runners comprise second grooves,
 - one of the roof panels is slidingly mounted in relation to the other roof panel along said second grooves,
 - at least some of the levers fitted to the corresponding panel comprise a slider slidingly mounted in the first corresponding groove; and
 - the driving means comprise a driving hook having a driving recess adapted for receiving and driving said slider along the corresponding guide, the recess extending frontwards via a driving wall adapted for driving the corresponding slider rearward, along said first groove, said recess extending rearward via a driving pin defining an inlet for the slider, via the rear of said driving hook, so that the driving pin drives the slider forward as long as it engages the first groove substantially along said longitudinal direction, but extricating from the slider when said slider

engages in the deflected slip of said first groove that it encounters, said deflected slip thus being located in the extension of the groove and making an obtuse angle therewith, so that the slider can engage therein in the direction of its drive.

2. (Previously presented) The retractable roof system of claim 1, wherein the lever groups individually comprise a curved lever comprising a first arm rotatably articulated on the corresponding roof panel and fixedly attached via an elbow to a second arm which engages one of said guides, in order to guidingly drive it.

3-4. Cancelled

5. (Currently amended) The retractable roof system of claim 4 1, wherein:

- the sliders are disposed on the second arm of at least some of the levers,
- the driving means extend along said longitudinal direction,
- the front panel is slidably mounted in relation to the rear panel in order to move under ~~it~~ said rear panel, and,
- therefore, the deflected slips of each first groove are oriented upwards and the lever groups are linked to the rear panel under which the first groove extends.

6. (Currently amended) The retractable roof system of claim 1, wherein the driving means comprise, towards a rear end, a ~~push-button~~ contact surface adapted for engaging at least one lever from the lever groups, when the latter is in the low position, and drives it rearward along with itself.

7. (Currently amended) The retractable roof system of claim 4 1, wherein:

- the front roof panel is slidably mounted in relation to the rear panel in order to move under it, and,

- the driving means of the front roof panel comprise, towards a rear end, a second driving pin adapted for fully engaging, in the corresponding deflected slips, the front lever group ~~beard by~~ fitted to the rear roof panel, once said levers are free from the corresponding driving pin, further to a forward sliding of the front roof panel, so that the rear roof panel then moves into its flush position.

8. (Currently amended) The retractable roof system of claim 4 1, wherein:

- the front roof panel is slidingly mounted in relation to the rear panel in order to move under it said rear panel, and,
- the driving means of the front roof panel comprise, towards a rear end, a second driving pin adapted for fully engaging, in the corresponding deflected slips, the front lever group ~~beard by~~ fitted to the rear roof panel, further to a forward sliding of the front roof panel, so that the rear roof panel then moves into its said flush position.

9. (Currently amended) A motor convertible vehicle having a front end and a rear end, and comprising :

a vehicle structure including a rear boot, and,

a retractable movable roof and a vehicle structure, the retractable roof system comprising including at least a front roof panel and a rear roof panel which are movable in relation to the vehicle structure, to be stowed in the rear boot, and to each other along a longitudinal direction of the vehicle between:

a flush position in which the roof panels are placed substantially at the same level as each other, the front roof panel thus being located in front of the rear roof panel, along said longitudinal direction; and,

an off-set position in an upward direction in which the roof panels are placed at least partially one above the other;

one of the front and rear roof panels bearing a group of front levers and a group of articulated rear levers, so as to tip over between:

a low position in which said one of the front and rear panels is substantially flush with a surround part of the vehicle structure,

and a high position in which said one of the front and rear panels is off-set in an upward direction in relation to the level of ~~its~~ said flush position;

wherein:

- said front and rear group of levers are pivotally mounted in relation to said roof panel which bears them;

- at least one of said front and rear roof panels comprises driving means for driving both the lever groups and one of said roof panels:

either from the front towards the rear, along a distance ensuring said roof panel to move from ~~its~~ said flush position to ~~its~~ said off-set position in an upward direction,

or from the rear towards the front, along said distance, but in the opposite direction, to ensure said roof panel to move from ~~its~~ said off-set position to ~~its~~ said flush position; and

- the lever groups engage, under the control of the driving means, guides extending essentially substantially parallel to said longitudinal direction, said guides being adapted for:

during the controlled displacement of the lever groups from the front towards the rear, guiding ~~their~~ said tipping over movement from the flush position of the corresponding roof panel to the off-set position ~~thereof~~; and

during the controlled displacement of said lever groups from the rear towards the front, guiding ~~their~~ said tipping over movement from the off-set position of the corresponding panel towards ~~its~~ the flush position ~~thereof~~; and

- the driving means comprise, towards a rear end, a contact surface adapted for engaging at least one lever from the lever groups, when the latter is in the low position, and drives said at least one lever rearward along with itself.

10. (Currently amended) The vehicle of claim 9, wherein the lever groups individually comprise a curved lever comprising a first arm rotatably articulated on the corresponding roof

panel and fixedly attached via an elbow to a second arm which engages one of said guides, in order to guidingly drive it said one of the guides.

11. (Currently amended) The vehicle of claim 9, wherein the guides comprise runners provided with first grooves in which the lever groups slide, the runners locally having deflected slips extending obliquely in relation to the horizontal and in relation to said longitudinal direction, along a length adapted to receive, individually, a part of said lever groups, so that once engaged in the deflected slips, said lever groups move, by pivoting, from one of ~~their~~ the high ~~or~~ and low positions towards the other position.

12. Cancelled

13. (New) The vehicle of claim 11, wherein :

- along the longitudinal direction of the vehicle, said runners comprise second grooves,
- one of the roof panels is slidingly mounted in relation to the other roof panel along said second grooves,
- at least some of the levers fitted to the corresponding panel comprise a slider slidingly mounted in the first corresponding groove; and
- the driving means comprise a driving hook having a driving recess adapted for receiving and driving said slider along the corresponding guide, the recess extending frontwards via a driving wall adapted for driving the corresponding slider rearward, along said first groove, said recess extending rearward via a driving pin defining an inlet for the slider, via the rear of said driving hook, so that the driving pin drives the slider forward as long as it engages the first groove substantially along said longitudinal direction, but extricating from the slider when said slider engages in the deflected slip of said first groove that it encounters, said deflected slip thus being located in the extension of the groove and making an obtuse angle therewith, so that the slider can engage therein in the direction of its drive.

Applicant : Queveau et al
Serial No. : 10/564,513
Filed : May 31, 2006
Page : 10 of 13

Attorney's Docket No.: 20233-003US1 / RVL/BR
61533 US 06017

14. (New) The vehicle of claim 9, wherein the rear boot is closed by a tailgate under which the retractable roof is adapted to be stowed.